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Notice of Allowability

Application No.

10/091,122

Applicant(s)

CROCKER, DAVID

Examiner

CHAMELI C. DAS

Art Unit

2192

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 4/18/05.
2. ☒ The allowed claim(s) is/are 1-12, 14-25 (newly numbered claims are 1-24).
3. ☒ The drawings filed on 05 March 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>5/3/05</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

1. This action is in response to the amendments filed on 4/18/05.
2. Claims 1 and 14 have been amended.
3. Claims 13 and 26 have been canceled.
4. Claims 1-12, 14-25 have been allowed.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. William R. Evans, applicant's attorney on 5/3/05.

The application has been amended as follows:

In Claims:

Claim 1 (currently amended):

at line 1, before "process", insert -- computer implemented --

at line 14, before "size", delete [the] and insert -- a --

at line 14, after "sets", insert --of --

Claim 4 (currently amended):

at line 3, before "restructuring" delete [of]

at line 3, before "data" delete [the]

Claim 5 (currently amended):

at line 4, before "original" delete [the]

Claim 9 (currently amended):

at line 2, after "more of" delete [:]

at line 3, after "type" delete [;] and insert --,--

at line 3, before "a post-assertion", insert -- and --

Claim 12 (currently amended):

at line 18, before "easily" delete [the]

Claim 14 (currently amended):

at line 16, before "size", delete [the] and insert -- a --

at line 16, after "sets", insert --of --

Claim 15 (currently amended):

at line 3, before "method", delete [the] and insert -- a --

Claim 16 (currently amended):

at line 2, after "executable code," delete [includes the further means] and

insert -- further includes --

Claim 17 (currently amended):

at line 1, after "wherein" delete [he] and insert -- the --

at line 3, after "restructuring" delete [the]

Claim 22 (currently amended):

at line 2, after "more of" delete [:]

at line 3, after "type" delete [;] and insert --,--

at line 3, before "a post-assertion", insert -- and --

Claim 23 (currently amended):

at line 18, before "easily" delete [the].

REASON FOR ALLOWANCE

5. The following is an examiner's statement of reason for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations a computer implemented process for developing mathematically validated object oriented software comprising the steps of: writing an abstract specification of a class, methods and expected properties of a component of the software, wherein the abstract specification of the methods includes a two-part postcondition such that when one of the methods is overridden by an overriding method in a descendent class one part of the one of the methods is inherited and another part the one of the methods is not inherited by the overriding method, as recited in the independent claims 1 and 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. The prior art made or record and not relied upon is considered pertinent to applicant's disclosure.

TITLE: Automatic checking of public contracts and private constraints on distributed objects, US 6336148 B1

TITLE: Building business objects and business software applications using dynamic object definitions of ingrediential objects, US 6789252 B1

TITLE: Assertion component in environment services patterns, US 6601192 B1

TITLE: System, method and article of manufacture for a persistent state and persistent object, separator in an information services patterns environment, US 6442748 B1

TITLE: Abstraction factory in a base services pattern environment, US 6615199 B1

TITLE: Assertion component in environment services patterns, US 6601192 B1

TITLE: Inheritance of Interface Specifications (Extended Abstract), author: Leavens, ACM, August 1994.

TITLE: Modular Reasoning in the Presence of Subclassing, author: Stata et al, ACM, 1995.

TITLE: Mapping a Functional Specification to an Object-Oriented Specification in Software Re-engineering, author: Periyasamy et al, ACM, 1996.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chameli Das whose telephone number is 571-272-2696.

The examiner can normally be reached on Monday-Friday from 7:00 A.M. to 3:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Tuan Dam can be reached at 571-272-2695. The fax number for this group is (703) 872-9306.

An inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is 571-272-2100.

Chameli C-D on
CHAMELI C. DAS
PRIMARY EXAMINER
5/3/05